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REPORT NO. 9

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Cotton Fiber and Processing Test Results

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CROP of 1976

Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 31, 1976

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.1/ These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

1/ Summary of Cotton Fiber and Processing Test Results, Crop of 1975, USDA, AMS, Cotton Division, May 1976.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1976

Discussion of Test Results

Southwestern short staple cottons tested through December 24 this season are longer, coarser and weaker than a year earlier, according to the Cotton Division, Agricultural Marketing Service, USDA. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than a year ago. Yarns spun from these samples are weaker but have fewer yarn imperfections. Average spinning potential yarn number is lower.

Average test results for all medium staple samples show fibers to be shorter and stronger than last season. Shirley Analyzer nonlint content is lower, but picker and card waste is higher. Yarn skein strength is slightly higher and imperfections are fewer than a year earlier. Spinning potential is slightly lower.

Southeastern medium staple samples are slightly longer, more uniform, coarser and stronger at both zero gage and 1/8" gage strength tests. Shirley Analyzer nonlint content is lower. Yarns spun from these samples are stronger with fewer imperfections. Spinning potential yarn number is higher.

South Central medium staple samples tested thus far this season are shorter and less uniform than a year ago. Cottons are stronger at zero gage strength tests. Shirley Analyzer nonlint content is lower, while picker and card waste is higher. Yarns are slightly stronger and have fewer yarn imperfections. The average spinning potential yarn number is lower.

Southwestern medium staple samples tested are more uniform, coarser and slightly weaker at zero gage strength tests. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than last season. Yarns are stronger and have higher appearance grades. Imperfections are fewer.

Medium staple samples tested from the West have slightly coarser and weaker fibers than a year ago. Picker and card waste is slightly higher. Yarns spun from these samples are weaker with lower appearance grades. Spinning potential is lower.

Average test results for all long staple samples tested through December 24 show longer and coarser fibers than a year earlier. Picker and card waste is lower as is comber waste. Yarns spun from these samples are stronger than last season and have fewer imperfections.

Long staple samples from the Southeast are much longer, more uniform and stronger than a year ago. Shirley Analyzer nonlint content, picker and card waste and comber waste are all lower than last season. Yarns spun from these samples are stronger. Appearance grades are lower. Average spinning potential is higher.

No additional lots were received from the South Central or Western area during this test period.

American Pima samples tested to date show fibers to be longer, less uniform and weaker at zero gage strength tests. Picker and card waste and comber waste are both lower than a year ago. Yarn quality is about the same as a year ago.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 24, 1976 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1975	38	.94	45	3.8	86	22	3.7	6.7	97	112	17	41
1976	36	.96	45	4.4	85	21	3.3	7.1	87	112	14	38
Medium Staple:												
Southeast												
1975	41	1.07	44	4.2	83	22	3.8	6.3	97	98	25	53
1976	45	1.08	45	4.6	85	23	3.1	6.4	106	98	20	56
South Central												
1975	113	1.10	45	4.3	85	23	3.2	5.6	105	101	21	59
1976	119	1.08	44	4.2	88	23	2.7	6.3	108	99	17	56
Southwest												
1975	31	1.06	43	3.8	83	22	3.5	5.9	102	88	31	56
1976	31	1.06	45	4.1	82	22	3.3	6.5	104	96	22	56
West												
1975	65	1.12	45	4.1	93	26	2.3	5.5	124	94	22	69
1976	56	1.12	45	4.2	90	25	2.2	5.7	120	90	19	67
U.S. Average												
1975	250	1.09	45	4.2	86	23	3.1	5.7	108	97	23	60
1976	251	1.08	45	4.2	87	24	2.7	6.2	110	96	19	58
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 24, 1976 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results								
		Length			Strength		SA	P&C	Comber	Yarn Quality						
		Span	Unif	Mike	Zero gage	1/8" gage	Non-lint	Waste	Waste	Strength		Appearance		Imprfctns		SPY
										carded	combed	carded	combed	card	comb	
	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.
										22s Carded & Combed Yarn						
Long Staple:																
Southeast																
1975	17	1.09	43	4.2	85	23	3.7	9.6	18.8	91	115	110	119	20	10	54
1976	11	1.15	45	4.3	87	25	3.1	6.7	15.8	116	137	103	115	21	9	67
South Central																
1975	6	1.11	43	4.0	88	23	3.8	9.2	18.1	104	125	110	120	19	9	62
1976	3	1.12	42	3.7	91	26	3.4	6.8	20.3	109	137	97	103	13	10	57
West																
1975	12	1.16	45	3.4	95	26	2.5	7.9	15.9	138	158	89	102	30	16	87
1976	1	1.20	48	3.8	89	26	2.9	6.4	11.8	147	162	90	100	30	12	103
U.S. Average																
1975	35	1.12	44	3.9	89	24	3.3	9.0	17.6	109	132	103	113	23	12	67
1976	15	1.15	44	4.2	88	25	3.2	6.7	16.4	117	138	101	112	20	9	67
				Array				American Pima				50's Combed Yarn				
Extra Long Staple:																
West																
1975	7	1.47	31	3.7	105	34	2.4	7.5	18.3		66		111		2	
1976	10	1.48	30	3.7	102	34	2.4	6.6	15.3		65		109		2	
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s) 2(50s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA																					
CENTRAL TEXAS																					
WACO							LANKART LX571						100 PERCENT								
3	LM	51 1/32	1.00	43	4.6	84	22	5.9	3.8	3	3	8.4	284	96	6.7	6.0	130	120	27	16	50
NORTHWEST TEXAS																					
ANSON							LANKART 611						100 PERCENT								
1	LM LT SP	52 2/31	0.97	46	4.3	81	21	8.1	3.3	3	3	7.0	270	88	7.7	6.7	120	100	36	19	42
BURKBURNETT							LANKART LX571						100 PERCENT								
2	LM	51 1/33	1.04	46	5.0	87	22	6.7	3.6	2	3	6.5	285	95	7.9	5.6	130	110	25	15	45
HART							STRIPPER 31						80 PERCENT								
1	MID SP	33 30	0.93	45	3.3	83	21	7.2	4.1	4	6	7.5	279	89	7.4	6.3	120	110	36	21	40
2	SLM SP	43 30	0.97	45	3.3	83	22	7.0	4.2	4	6	7.7	303	99	7.8	6.5	130	110	24	16	46
LAMESA							BLIGHTMASTER A5						70 PERCENT								
2	SLM LT SP	42 3/31	0.96	46	4.1	80	20	7.5	3.8	1	4	6.8	279	90	8.5	6.7	130	120	17	10	42
LOCKNEY							MORCOT M70						80 PERCENT								
2	LM LT SP	52 2/32	0.95	46	3.6	83	20	6.4	3.5	3	4	7.1	308	103	7.7	6.2	120	110	36	17	51
LOCKNEY							PAYMASTER 18						90 PERCENT								
2	SLM SP	43 30	0.92	47	3.9	82	20	6.7	3.8	3	5	8.1	269	85	6.9	5.3	130	110	39	23	36
LOOP							PAYMASTER 18						90 PERCENT								
2	SLM	41 29	0.87	47	5.4	83	19	6.4	2.3	1	4	6.9	250	72	6.3	5.2	130	110	14	10	26
LUBBOCK							PAYMASTER 909						75 PERCENT								
1	MID SP	33 31	0.97	47	4.0	80	22	7.4	3.4	3	5	6.1	307	102	8.2	6.7	130	120	24	13	56
RULE							LANKART LX571						100 PERCENT								
1	SLM	41 32	1.02	44	4.8	87	20	6.9	2.7	2	3	6.2	278	90	7.1	5.7	130	110	23	10	44
TULIA							STRIPPER 31						90 PERCENT								
2	SLM LT SP	42 30	0.94	47	4.0	86	21	7.5	3.6	2	4	6.5	278	91	7.1	5.9	130	120	21	13	40
OKLAHOMA																					
GRANDFIELD							LANKART 57						95 PERCENT								
2	SLM LT SP	42 31	0.96	45	5.3	88	20	6.9	2.6	2	3	7.0	256	79	6.5	5.3	130	110	19	13	32

1/ Reduced from 41 because of bark
2/ Reduced from 42 because of bark
3/ Reduced from 32 because of bark

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
MERIDIANVILLE							STONEVILLE 603						100 PERCENT								
3 SLM	41	33	1.03	45	4.0	85	24	6.8	3.2	2	3	7.3	96	28	5.9	3.7	90	70	26	19	48
MONTGOMERY							DELTAPINE 16						80 PERCENT								
2 SLM	41	35	1.11	44	4.6	81	23	7.2	2.2	1	2	6.5	106	36	6.3	4.6	100	80	19	15	57
3 SLM LT SP	42	34	1.15	43	4.2	76	22	8.3	2.5	2	3	5.6	111	38	6.8	5.3	80	70	29	25	69
MOUNDVILLE							COKER 201						80 PERCENT								
2 SLM	41	34	1.06	44	4.5	83	22	6.1	1.9	1	3	5.8	101	33	5.6	4.4	90	70	24	18	53
NORTHPORT							DELTAPINE 16						80 PERCENT								
3 SLM	41	34	1.09	44	4.2	79	22	7.7	2.0	1	3	5.8	109	36	6.2	4.8	90	80	20	19	58
PRATTVILLE							COKER 417						95 PERCENT								
2 SLM	41	35	1.11	45	4.5	92	25	5.6	2.7	2	2	6.7	117	40	5.6	4.5	100	80	17	17	62
SCOTTSBORO							DIXIE KING III						73 PERCENT								
3 SLM SP	43	34	1.11	45	3.9	81	23	6.6	2.9	3	5	6.4	118	41	6.2	4.8	100	70	25	22	72
GEORGIA																					
ALLENTOWN							COKER 201						99 PERCENT								
3 LM	51	35	1.07	46	5.0	84	23	6.5	4.4	3	3	7.9	96	29	5.3	3.5	90	80	26	20	43
BOSTWICK							DIXIE KING III						100 PERCENT								
3 LM	51	35	1.06	47	4.4	88	23	7.2	4.3	3	3	7.9	115	37	6.1	4.5	100	90	14	11	63
SHELLMAN							DELTAPINE 16						70 PERCENT								
2 SLM LT SP	42	35	1.08	45	4.9	79	22	6.7	1.8	3	3	5.7	98	32	5.8	3.9	90	80	17	13	53
SOCIAL CIRCLE							MCNAIR 612						98 PERCENT								
2 SLM	41	35	1.08	47	4.7	84	23	6.1	3.9	2	3	7.0	106	34	5.7	4.3	90	70	24	22	59
SOUTH CAROLINA																					
BLACKVILLE							MCNAIR 612						100 PERCENT								
3 LM LT SP	52	34	1.10	45	4.6	88	23	6.4	3.5	2	3	6.9	110	38	5.9	4.5	90	80	22	20	60

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code*	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA																					
ARKANSAS																					
OSCEOLA							STONEVILLE 731N						100 PERCENT								
3 LM	51	34	1.05	42	3.5	83	21	5.8	1.8	2	2	9.4	99	32	5.6	3.9	80	60	36	29	50
LOUISIANA																					
EPPS							DELTAPINE 16						100 PERCENT								
3 MID	31	35	1.09	45	4.7	87	25	7.2	2.2	1	3	6.2	115	37	6.5	4.7	90	80	17	11	62
LAKE PROVIDENCE							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.10	44	4.1	86	23	7.5	3.0	1	2	6.6	118	39	6.9	4.9	90	70	21	17	67
LAKE PROVIDENCE							STONEVILLE 213						100 PERCENT								
3 SLM	41	34	1.07	45	4.6	82	23	6.6	2.5	1	2	7.0	106	34	6.4	4.2	90	70	25	16	55
MONROE							DELTAPINE 61						100 PERCENT								
3 SLM	41	34	1.09	44	4.6	85	24	7.7	2.2	1	2	5.4	113	38	6.1	4.4	90	70	19	15	63
OAK RIDGE							DELTAPINE 25						100 PERCENT								
3 SLM	41	34	1.08	47	4.8	91	23	6.2	2.2	1	2	5.9	114	38	6.0	4.4	100	80	20	14	60
OPELOUSAS							STONEVILLE 213						76 PERCENT								
3 SLM	41	34	1.03	44	3.8	82	22	6.6	3.4	2	2	7.6	97	30	6.0	4.2	90	70	23	20	56
SHREVEPORT							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.10	43	3.7	86	23	7.7	1.8	1	3	5.1	109	37	6.7	4.7	100	80	15	10	59
MISSISSIPPI																					
DUCK HILL							DELTAPINE 16						90 PERCENT								
3 SLM	41	34	1.01	43	3.9	83	21	7.6	2.6	2	2	6.9	102	32	6.1	4.4	110	70	18	19	59
NATCHEZ							STONEVILLE 213						85 PERCENT								
3 SLM	41	35	1.11	43	4.1	80	24	6.7	2.8	1	2	6.9	111	36	6.5	4.9	100	90	14	12	61
SUNFLOWER							STONEVILLE 213						100 PERCENT								
3 SLM	41	33	1.05	43	4.3	84	23	6.3	2.8	2	2	7.4	104	35	6.0	4.3	100	80	15	17	59
TRIBBETT							STONEVILLE 213						100 PERCENT								
3 LM	51	34	1.04	46	4.9	89	23	5.8	4.3	3	2	8.2	100	33	5.1	3.7	110	80	19	15	53

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
MISSOURI																					
CATRON							STONEVILLE 213						100 PERCENT								
3 LM LT SP	52	34	1.01	43	3.3	90	22	6.3	5.8	3	3	8.7	103	33	5.8	4.2	100	70	26	23	53
HAYTI							DELTAPINE 16						80 PERCENT								
3 MID LT SP	32	35	1.12	45	3.7	87	23	6.0	2.3	2	4	6.1	120	40	6.9	5.1	110	90	8	6	73
TENNESSEE																					
BRADEN							DELTAPINE 16						95 PERCENT								
3 SLM	41	34	1.05	44	4.0	87	21	7.5	2.7	1	3	6.7	108	35	6.7	4.8	110	80	16	16	51
DYERSBURG							STONEVILLE 213						80 PERCENT								
2 SLM LT SP	42	34	1.07	46	3.9	85	23	6.4	3.2	2	3	5.8	106	36	5.9	4.3	90	70	35	26	59
MCLEMORESVILLE							DELTAPINE 25						80 PERCENT								
2 SLM SP	43	34	1.06	47	4.3	85	23	7.3	2.4	4	5	5.0	107	34	6.3	4.6	110	80	20	15	60
SOUTHWEST AREA																					
NORTHWEST TEXAS																					
LOOP							GSA71						75 PERCENT								
1 MID LT SP	32	31	0.90	45	4.5	85	21	6.4	3.2	2	4	7.6	94	29	5.9	4.4	110	80	16	14	43
WEST AREA																					
ARIZONA																					
BUCKEYE							DELTAPINE 61						100 PERCENT								
3 SLM	41	35	1.11	45	5.0	86	23	6.8	2.2	1	3	6.3	101	32	5.9	3.9	100	80	18	16	51
ELOY							DELTAPINE 66						70 PERCENT								
3 SLM	41	35	1.12	43	4.4	84	21	5.6	3.0	2	2	6.6	104	34	5.8	4.0	90	70	19	15	54
GILA BEND							STONEVILLE 213						93 PERCENT								
2 MID	31	34	1.07	44	5.0	84	22	6.0	1.8	1	4	6.7	92	29	5.2	3.8	90	70	17	18	42
MOHAVE VALLEY							STONEVILLE 256						100 PERCENT								
2 MID	31	34	1.09	41	3.8	86	20	5.2	1.9	0	3	5.8 1/	92	28	4.9	3.4	90	60	22	17	50
WENDEN							DELTAPINE 16						90 PERCENT								
2 MID	31	35	1.11	43	4.4	80	22	7.6	1.8	1	3	5.7	103	32	6.5	4.4	80	70	15	14	52

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1976--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST AREA--(Continued)																					
CALIFORNIA																					
ARVIN							ACALA SJ-2						100 PERCENT								
3 SLM	41	36	1.12	45	3.8	89	26	6.3	2.8	1	2	6.4 1/	124	42	6.1	4.7	100	70	21	14	73
BAKERSFIELD							ACALA SJ-2						99 PERCENT								
3 MID	31	35	1.11	45	3.9	84	24	6.4	2.0	0	3	5.2 1/	120	42	6.5	5.0	80	70	19	14	72
BAKERSFIELD							ACALA SJ-2						98 PERCENT								
3 SLM	41	35	1.09	45	4.0	89	26	5.9	2.2	2	3	6.4	124	42	6.0	4.6	90	70	17	17	71
BUTTONWILLOW							ACALA SJ-2						100 PERCENT								
3 MID	31	36	1.13	46	4.1	92	26	6.2	1.8	0	3	4.9	128	44	6.1	4.7	100	70	14	13	71
CHOWCHILLA							ACALA SJ-4						92 PERCENT								
3 SLM	41	36	1.15	48	4.4	95	28	6.3	2.7	2	3	5.7	141	50	6.4	5.5	100	80	24	19	85
COALINGA							ACALA SJ-2						100 PERCENT								
3 SLM PLUS	40	36	1.13	47	3.8	91	26	6.4	1.7	1	3	6.8	130	45	5.9	5.0	80	70	16	13	76
FIREBAUGH							ACALA SJ-2						98 PERCENT								
3 SLM	41	36	1.13	46	4.1	91	26	6.2	2.3	1	3	5.9	123	43	6.1	4.7	90	70	21	13	72
KERMAN							ACALA SJ-2						85 PERCENT								
3 MID	31	36	1.15	47	4.0	90	27	6.4	2.0	1	3	6.3	132	46	6.5	4.7	90	70	18	18	76
LOST HILLS							ACALA SJ-4						100 PERCENT								
3 SLM	41	36	1.13	47	4.3	99	27	6.1	2.7	1	3	6.6	136	48	6.2	4.7	90	70	24	19	77
TULARE							ACALA SJ-4						100 PERCENT								
3 SLM	41	36	1.13	46	4.0	96	26	5.9	2.4	2	2	5.3	134	49	6.1	4.8	90	70	27	21	82
WESTMORLAND							DELTAPINE 61						100 PERCENT								
1 MID LT SP	32	35	1.07	45	5.0	88	24	6.1	1.8	1	3	6.7	97	30	5.4	3.7	90	80	21	19	47

1/ Cotton stuck to processing rolls

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
ALBERTA							**COKER 310**						**95 PERCENT**								
2 SLM	**41**	**34**	**1.09**	**42**	**3.9**	**90**	**23**	**5.6**	**3.7**	**1**	**2**	**8.4**	**104**	**34**	**5.4**	**3.8**	**90**	**80**	**26**	**24**	**56**
												*** 18.1**	**127**	**43**	**6.4**	**4.8**	**110**	**90**	**9**	**8**	
GEORGIA																					
MADISON							**COKER 310**						**100 PERCENT**								
3 SLM LT SP	**42**	**35**	**1.16**	**43**	**4.4**	**85**	**23**	**7.0**	**4.0**	**2**	**4**	**7.1**	**111**	**39**	**5.5**	**4.2**	**110**	**90**	**17**	**16**	**57**
												*** 14.7**	**129**	**47**	**6.3**	**4.9**	**110**	**100**	**8**	**5**	
NORTH CAROLINA																					
DUNN							**COKER 310**						**100 PERCENT**								
3 SLM	**41**	**35**	**1.13**	**44**	**4.0**	**90**	**25**	**6.5**	**3.3**	**2**	**3**	**6.7**	**119**	**42**	**5.8**	**4.7**	**100**	**90**	**19**	**17**	**70**
												*** 15.6**	**138**	**51**	**6.8**	**5.1**	**110**	**100**	**10**	**7**	
SOUTH CAROLINA																					
HARTSVILLE							**COKER 310**						**100 PERCENT**								
3 SLM LT SP	**42**	**36**	**1.16**	**45**	**4.3**	**87**	**24**	**6.6**	**3.4**	**3**	**3**	**7.0**	**118**	**42**	**6.0**	**4.7**	**90**	**70**	**30**	**26**	**73**
												*** 15.1**	**140**	**50**	**6.2**	**5.1**	**100**	**90**	**13**	**11**	

* Comber Waste and Combed Yarn Data

Table 5--Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1976

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Combed Yarns									
			Array Length		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns	
No	Grade Name & Code	Stple	UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No
WEST		AREA																			
ARIZONA																					
CASA GRANDE							PIMA S-5						100 PERCENT								
1	4	46	1.50	30	3.8	103	35	7.2	2.5	4	6	7.2	15.1	67	35	5.3	4.5	110	110	2	1
SAFFORD							PIMA S-5						93 PERCENT								
2	4	46	1.52	32	4.2	103	35	7.7	2.5	4	6	7.4	14.6	64	34	5.6	4.4	110	110	1	2
NEW MEXICO																					
COLUMBUS							PIMA S-5						94 PERCENT								
2	3	44	1.48	31	3.2	95	34	7.5	2.3	4	6	7.4	13.7	66	35	5.6	4.9	110	120	1	2
WEST TEXAS																					
EL PASO							PIMA S-4						85 PERCENT								
2	3	44	1.51	29	3.6	99	34	7.6	2.4	3	6	7.0	14.2	65	35	5.5	4.7	100	110	1	2
TORNILLO							PIMA S-5						100 PERCENT								
2	3	46	1.51	30	3.5	100	35	7.9	2.0	3	5	6.6	15.3	68	37	5.6	4.8	100	110	3	2

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